RECUI 5600	SEPIJKR Voluntarijani Paro (71,599)	undnient II LLP				
	ATENT COOPERATION TREATY Docketed For 42624					
	From the INTERNATIONAL SEARCHING AUTHORITY By	<u>72004</u>				
	To: PETER F. CORLESS EDWARDS & ANGELL, LLP P. O. BOX 9169 BOSTON, MA 02209 NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION					
	(PCT Rule 44.1)					
. '	Date of Mailing (day/month/year) 26 MAR 2004	· ·				
	Applicant's or agent's file reference 56792-PCT FOR FURTHER ACTION See paragraphs 1 and 4 below					
	International application No. PCT/US03/00531 RECEIVE International filing date (day month/year) 07 January 2003 (07.01.2003)					
	Applicant JOHN HOPKINS UNIVERSITY EDWARDS & ANGELL/LLP					
	The applicant is hereby notified that the international search report has been established and is transmitted herewith.					
	Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):	,				
	When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.					
	Where? Directly to the International Bureau of WIPO, 34, chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35					
•	For more detailed instructions, see the notes on the accompanying sheet.					
	2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.					
	3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:					
	the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.					
	4. Reminders					
,	Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90 bis.1 and 90 bis.3, respectively, before the completion of the technical preparations for international publication.					
	Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.					
	In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.					
	See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.					

Name and mailing address of the ISA/US Commissioner for Patents

Box PCT Washington, D.C. 20231 Facsimile No. (703)305-3230 Form PCT/ISA/220 (April 2002)

BEST AVAILABLE COPY



PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 56792-PCT	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.						
International application No. PCT/US03/00531	International filing date (day/month/year) 07 January 2003 (07.01.2003)		(Earliest) Priority Date (day/month/year) 07 January 2002 (07.01.2002)					
Applicant JOHN HOPKINS UNIVERSITY								
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.								
This international search report consists of a total of sheets. It is also accompanied by a copy of each prior art document cited in this report.								
 Basis of the Report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. 								
the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)). b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:								
	nal application in written form.		-					
filed together with the inte	ernational application in computer r	eadable fo	rm.					
furnished subsequently to	this Authority in written form.							
furnished subsequently to	furnished subsequently to this Authority in computer readable form.							
the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.								
the statement that the info	rmation recorded in computer read	able form	is identical to the written sequence listing has					
2. Certain claims were four	nd unsearchable (See Box I).							
3. Unity of invention is lack	king (See Box II).							
4. With regard to the title,		•						
the text is approved as su								
the text has been establish	ned by this Authority to read as foll	ows:						
5. With regard to the abstract,		•						
the text is approved as su	bmitted by the applicant.							
the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. T may, within one month from the date of mailing of this international search report, submit comments Authority.								
6. The figure of the drawings to be published with the abstract is Figure No.								
as suggested by the appli			None of the figures					
because the applicant fail	ed to suggest a figure.							
because this figure better	characterizes the invention.							

Form PCT/ISA/210 (first sheet) (July 1998)



INTERNATIONAL SEARCH REPORT



International application No.

PCT/US03/00531

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : C12Q 1/68; C12P 21/06; G01N 33/53; C12N 5/20; CO7K 16/30 US CL : 435/344.1, 172.2, 70.21, 344, 240.27, 6, 69.1, 7.2, 7.23; 530/387.7, 388.8, 388.85, 391.3, 391.7								
	International Patent Classification (IPC) or to both n	national classification and IPC						
B. FIELDS SEARCHED								
Minimum do	cumentation searched (classification system followed	by classification symbols)						
U.S.: 435/344.1, 172.2, 70.21, 344, 240.27, 6, 69.1, 7.2, 7.23; 530/387.7, 388.8, 388.85, 391.3, 391.7								
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched								
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)								
	UMENTS CONSIDERED TO BE RELEVANT							
Category *	Citation of document, with indication, where ap		Relevant to claim No.					
X Y	US 5,650,291 A (LEE) 22 July 1997 (22.07.97), coparagraph of columns 2 and 3; column 3, lines 55-5 column 6, lines 24-32; bridiging paragraph of column	1-4, 12-14, 39, 47-64, 69, 71, 72, 79 and 80						
			15-32					
Y,T	US 6,511,806 B1 (FRUEHAUF et al) 28 January 2	003 (28.01.2003), column 9, lines 5-	15-32					
	33.							
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	}	•						
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			(A)					
			4 4					
 			<u> </u>					
Further	r documents are listed in the continuation of Box C.	See patent family annex.	•					
* S	pecial categories of cited documents:	"T" later document published after the in	iternational filing date or					
"A" documen	it defining the general state of the art which is not considered to	priority date and not in conflict with understand the principle or theory u						
	ticular relevance	"X" document of particular relevance; th						
"E" earlier ay	pplication or patent published on or after the international filing	considered novel or cannot be consi	dered to involve an inventive					
	it which may throw doubts on priority claim(s) or which is cited ish the publication date of another citation or other special reason (fied)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such						
"O" documen	at referring to an oral disclosure, use, exhibition or other means	combination being obvious to a pers						
	at published prior to the interprational filing date but later than the	"&" document member of the same paten	t family .					
nriority .	date claimed	Date of mailing of the international and	arch renort					
Date of the a	actual completion of the international search	Date of mailing of the international sea	uen report					
	004 (12.03.2004)	26 MAR 2004						
	ailing address of the ISA/US	Authorized officer						
	nmissioner of Patents and Trademarks PCT	Alana M. Harris, Ph.D. Januel Jone						
Was	Washington, D.C. 20231							
Form PCT/ISA/210 (second sheet) (July 1998)								